FCC Radio Test Report

Contains FCC ID	**:**	**H8NNMQ2210-D187**
FCC ID	**:**	**H8NCBE1V1K**
Equipment	**:**	**WiFi 7 Router with Backup**
Model Name	**:**	**CBE1V1K**
Applicant	**:**	**ASKEY COMPUTER CORPORATION 10F, No.119, Jiankang Rd., Zhonghe Dist., New Taipei City, Taiwan**
Manufacturer	**:**	**ASKEY COMPUTER CORPORATION 10F, No.119, Jiankang Rd., Zhonghe Dist., New Taipei City, Taiwan**
Standard	**:**	**47 CFR FCC Part 15.247**

The product was received on Feb. 26, 2025, and testing was started from Mar. 04, 2025 and completed on Aug. 01, 2025. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.

Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR471712AL	01	Initial issue of report	Aug. 29, 2025

Summary of Test Result

Report Clause	Ref.Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and explanations:
None

Reviewed by: Ryan Hsiao

Report Producer: Debby Hung

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2400-2483.5	LE	2402-2480	0-39 [40]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX
2.4-2.4835GHz	BT-LE(125kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(500kbps)	1.0	1TX

Note:
- Bluetooth LE uses a GFSK (1Mbps/2Mbps/125kbps/500kbps) modulation.
- BWch is the nominal channel bandwidth.
- Bluetooth LE 125k/500k/1Mbps uses the same modulation, and 1Mbps was found to be the worst case scenario which was performed full test and recorded in this test report.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	NA	N01AKCGA-PK1-LB150U	PCB	I-Pex	BT+Thread	Radio 3
2	NA	N03AKCGB-PK1-LE150U	PCB	I-Pex	2.4G+5G	Radio 1_2.4G Radio 2_5G
3	NA	N03AKCGC-PK1-LG210U	PCB	I-Pex	2.4G+5G	Radio 1_2.4G Radio 2_5G
4	NA	N03AKCGD-PK1-LB210U	PCB	I-Pex	2.4G+5G	Radio 1_2.4G Radio 2_5G
5	NA	N03AKCGE-PK1-LW180U	PCB	I-Pex	2.4G+5G	Radio 1_2.4G Radio 2_5G
6	NA	N06AKCGF-PK1-LK90U	PCB	I-Pex	6G	Radio 2
7	NA	N06AKCGG-PK1-LA70U	PCB	I-Pex	6G	Radio 2
8	NA	N06AKCGH-PK1-LY180U	PCB	I-Pex	6G	Radio 2
9	NA	N06AKCGJ-PK1-LR180U	PCB	I-Pex	6G	Radio 2

Ant.	Port	Gain (dBi)									
		2.4G	5.2G	5.3G	5.6G	5.785G	6.175G	6.475G	6.695G	6.995G	BT+ Thread
1	1	-	-	-	-	-	-	-	-	-	2.5
2	1	2.9	2.22	2.66	2.37	2.98	-	-	-	-	-
3	2	3.72	2.79	2.84	2.77	2.64	-	-	-	-	-
4	3	3.72	3.09	3.04	2.82	3.28	-	-	-	-	-
5	4	2.79	2.33	2.96	3.13	2.59	-	-	-	-	-
6	1	-	-	-	-	-	4.8	5	4.8	5.3	-
7	2	-	-	-	-	-	4.9	5.1	4.7	5	-
8	3	-	-	-	-	-	4.2	4.3	4.6	5.4	-
9	4	-	-	-	-	-	5.8	4.8	5	5.1	-

Composite Gain (dBi)					
	2.4G	5.2G	5.3G	5.6G	5.785G
DG [1SS]	5.96	4.25	3.34	4.11	4.58
DG [2SS]	3.72	3.09	3.04	3.13	3.28
DG [4SS]	3.72	3.09	3.04	3.13	3.28

Note 1: The EUT has nine antennas.

Note 2: The composite gain is derived as KDB 662911 D03 v02 which was used as directional gain. For more detail information, please refer to the Antenna Pattern Report AP471712.

For 2.4GHz function:

For IEEE 802.11 b/g/n/ax/be mode (4TX/4RX)

Ant. 2 (port 1), Ant. 3 (port 2), Ant. 4 (port 3) and Ant. 5 (port 4) could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax/be mode (4TX/4RX)

Ant. 2 (port 1), Ant. 3 (port 2), Ant. 4 (port 3) and Ant. 5 (port 4) could transmit/receive simultaneously.

For 6GHz function:

For IEEE 802.11 ax/be mode (4TX/4RX)

Ant. 6 (port 1), Ant. 7 (port 2), Ant. 8 (port 3) and Ant. 9 (port 4) could transmit/receive simultaneously.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 1 (port 1) could transmit/receive.

For Thread function:

For IEEE 802.15.4 mode (1TX/1RX)

Ant. 1 (port 1) could transmit/receive.

1.1.3 EUT Information

Operational Condition					
EUT Power Type	From AC Adapter				
EUT Function	☒	Point-to-multipoint	☐	Point-to-point	
Type of EUT					
☒	Stand-alone				
☐	Combined (EUT where the radio part is fully integrated within another device)				
	Combined Equipment - Brand Name / Model No.:	…			
☐	Plug-in radio (EUT intended for a variety of host systems)				
	Host System - Brand Name / Model No.:	…			
☐	Other:				

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
BT-LE(1Mbps)	0.685	1.64	428.437u	3k
BT-LE(2Mbps)	0.39	4.09	243.75u	5k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR FCC Part 15
- ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024

The following reference test guidance is not within the scope of accreditation of TAF:

- KDB 558074 D01 v05r02
- KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab.：Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua **(TAF:** 3785**)**	**ADD:** No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		**FAX:** 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	**Test Site No.**	**Test Engineer**	**Test Environment**	**Test Date**
AC Conduction	CO04-HY	Daniel Lin	22.2~23.1°C / 50~54%	01/Aug/2025
RF Conducted	TH07-HY	Yuna Lin	22.2~22.9°C / 53~58%	08/Mar/2025
Radiated	03CH02-HY	Daniel Lin	22.1~24.3°C / 52~56%	04/Mar/2025~01/Aug/2025
Radiated (Colocation)	03CH03-HY	Simon Cheng	23.6~24.7°C / 51~54%	01/May/2025
☐ Wen 33rd.St. **(TAF:** 3785**)**	**ADD:** No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		**FAX:** 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Test Items	**Uncertainty**	**Remark**
AC Power-line Conducted Emissions	3.44 dB	Confidence levels of 95%
Conducted Output Power	1.48 dB	Confidence levels of 95%
Bandwidth	0.05 MHz	Confidence levels of 95%
Conducted Emission	1.48 dB	Confidence levels of 95%
Power Spectral Density	1.22 dB	Confidence levels of 95%
Radiated Emission (9 kHz ~ 30 MHz)	2.9 dB	Confidence levels of 95%
Radiated Emission (30 MHz ~ 1 GHz)	5.64 dB	Confidence levels of 95%
Radiated Emission (1 GHz ~ 18 GHz)	5.02 dB	Confidence levels of 95%
Radiated Emission (18 GHz ~ 40 GHz)	5.28 dB	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	PuTTY Release 0.72

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	14
2440MHz	14
2480MHz	13
BT-LE(2Mbps)	-
2402MHz	14
2440MHz	14
2480MHz	0C

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	Adapter mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
1	Adapter mode
Operating Mode > 1GHz	CTX
Orthogonal Planes of EUT	**Y Plane**
	
Worst Planes of EUT	V

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	Bluetooth+WLAN 2.4GHz+WLAN 5GHz+WLAN 6GHz +Thread+WWAN
Refer to Sporton Test Report No.: FA471712 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.3 Accessories

Accessories				
AC Adapter (US Plug)	**Brand Name**	Spectrum	**Model Name**	S042PAU1200350
	Power Rating	I/P: 100-120 Vac, 1.0 A, O/P: 12.0 Vdc, 3.5 A		
	Power Cord	1.8 meter, non-shielded cable, w/o ferrite core		
RJ45 Cable	1.75 meter, non-shielded cable, w/o ferrite core			
Battery Backup	**Brand Name**	Spectrum	**Model Name**	BBS8V1T
	Power Rating	I/P: 11.5 - 12.5 Vac, 3.5 A O/P: Battery Mode: 5.9 - 8.4 Vdc, 5.8 A Line Mode: 11.2 - 12.5 Vdc, 3.5 A		

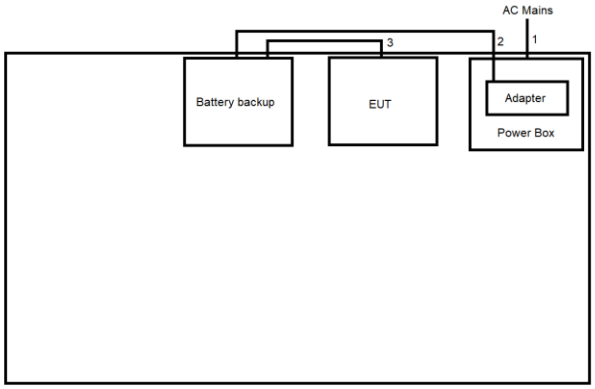
Reminder: Regarding to more detail and other information, please refer to user manual.

2.4 Support Equipment

Support Equipment – Conducted					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

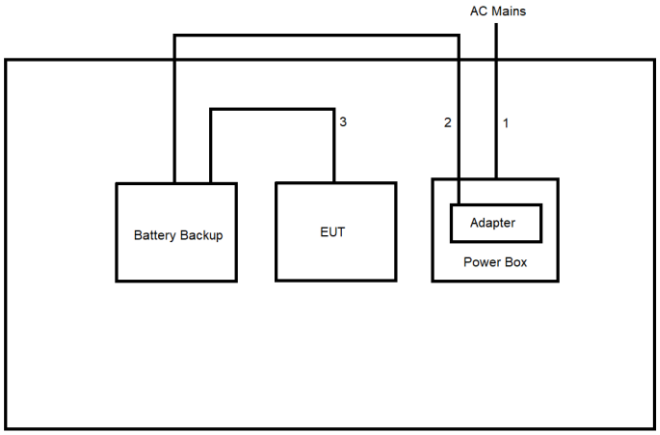
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	NO	1.8	-
2	DC Power Cable	NO	1.8	-
3	DC Power Cable	NO	0.9	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	NO	1.8	-
2	DC Power Cable	NO	1.8	-
3	DC Power Cable	NO	0.9	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

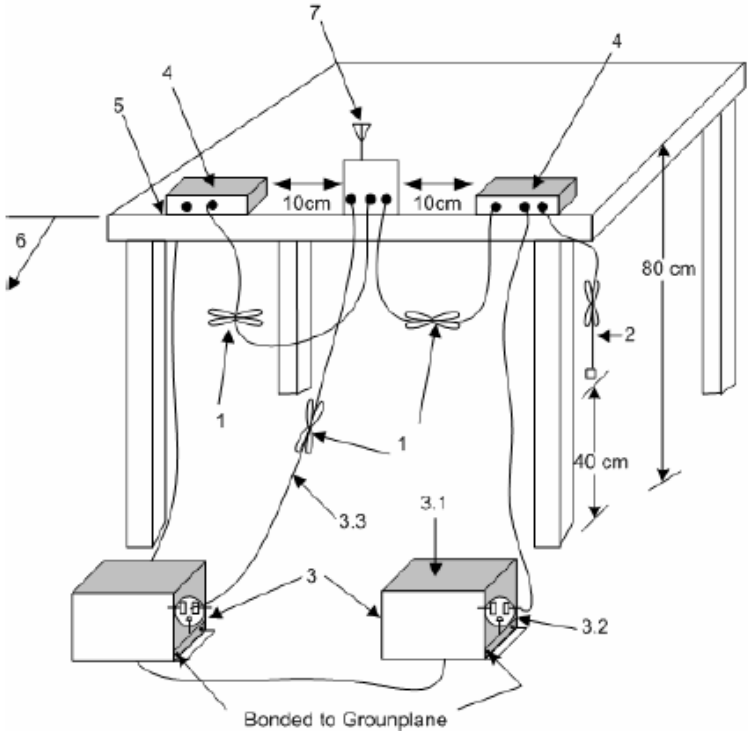
Test Method
▪ Refer as ANSI C63.10, clause 6.2 foray power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Raw(Read Level) +LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50Ωloads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
▪ 6 dB bandwidth ≥ 500 kHz.

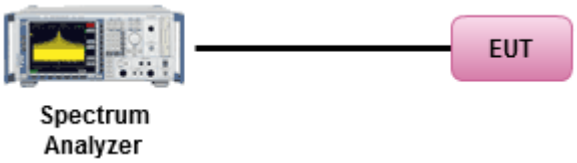
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
	☒ Refer as KDB 558074, clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
	☐ Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
	☐ Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup

Emission Bandwidth


3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit			
	▪ If G_{TX} ≤ 6 dBi, then P_{Out} ≤ 30 dBm (1 W)		
	▪ Point-to-multipoint systems (P2M): If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6) dBm		
	▪ Point-to-point systems (P2P): If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)/3 dBm		
	▪ Smart antenna system (SAS):		
		- Single beam: If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)/3 dBm	
		- Overlap beam: If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)/3 dBm	
		- Aggregate power on all beams: If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)/3 + 8dB dBm	
e.i.r.p. Power Limit:			
▪ 2400-2483.5 MHz Band			
	▪ Point-to-multipoint systems (P2M): P_{eirp} ≤ 36 dBm (4 W)		
	▪ Point-to-point systems (P2P): P_{eirp} ≤ MAX(36, [P_{Out} + G_{TX}]) dBm		
	▪ Smart antenna system (SAS)		
		- Single beam: P_{eirp} ≤ MAX(36, P_{Out} + G_{TX}) dBm	
		- Overlap beam: P_{eirp} ≤ MAX(36, P_{Out} + G_{TX}) dBm	
		- Aggregate power on all beams: P_{eirp} ≤ MAX(36, [P_{Out} + G_{TX} + 8]) dBm	
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, **G_{TX}** = the maximum transmitting antenna directional gain in dBi.			

3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
▪ Maximum Peak Conducted Output Power	
	☐ Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
	☐ Refer as KDB 558074, clause 8.3.1.2 integrated band power method.
	☐ Refer as KDB 558074, clause 8.3.1.3 (11.9.1.2 of ANSI C63.10) peak power meter.
▪ Maximum Average Conducted Output Power	
	☐ Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
	☒ Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
▪ For conducted measurement.	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
▪ Power Spectral Density (PSD)≤8 dBm/3kHz

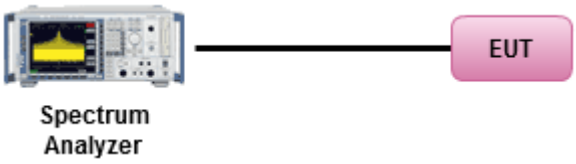
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method		
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).		
	☒ Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.	
▪ For conducted measurement.		
	▪ If The EUT supports multiple transmit chains using options given below:	
		▪ Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	**Limit (dB)**
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average level.	

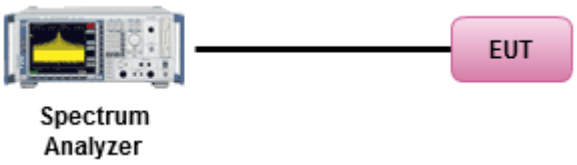
3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method
▪ Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.5.4 Test Setup

Emissions in Non-restricted Frequency Bands


3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	**Field Strength (uV/m)**	**Field Strength (dBuV/m)**	**Measure Distance (m)**
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB / decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
▪	The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
▪	Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
▪	For the transmitter unwanted emissions shall be measured using following options below:
	▪ Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
▪	For the transmitter band-edge emissions shall be measured using following options below:
	▪ Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	▪ Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	▪ Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
▪	Use the following spectrum analyzer settings:
	▪ Set RBW=100 kHz for f < 1 GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	▪ Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement. For average measurement, refer as 1.1.4.
▪	KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	▪ Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

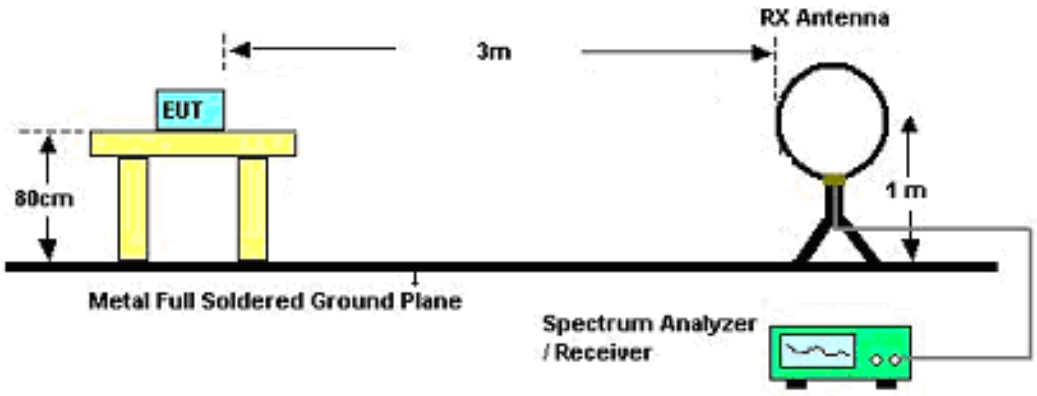
3.6.4 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

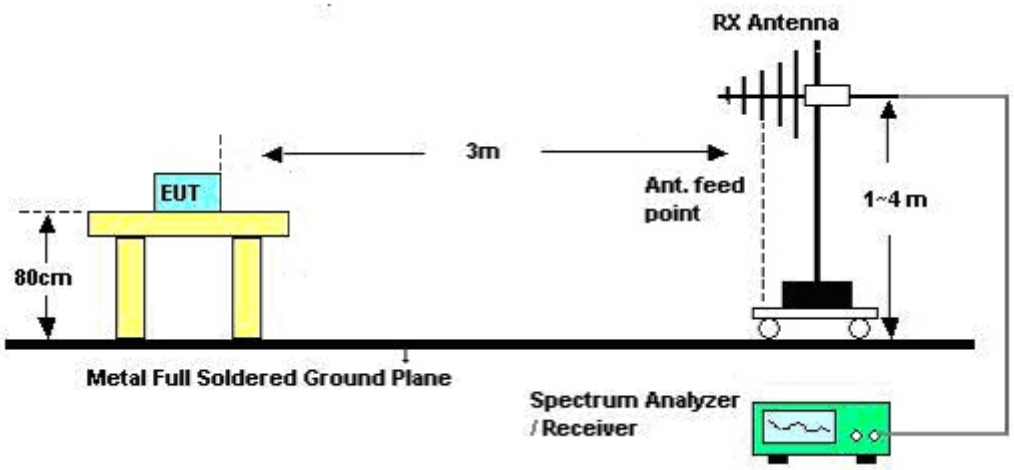
3.6.5 Test Setup

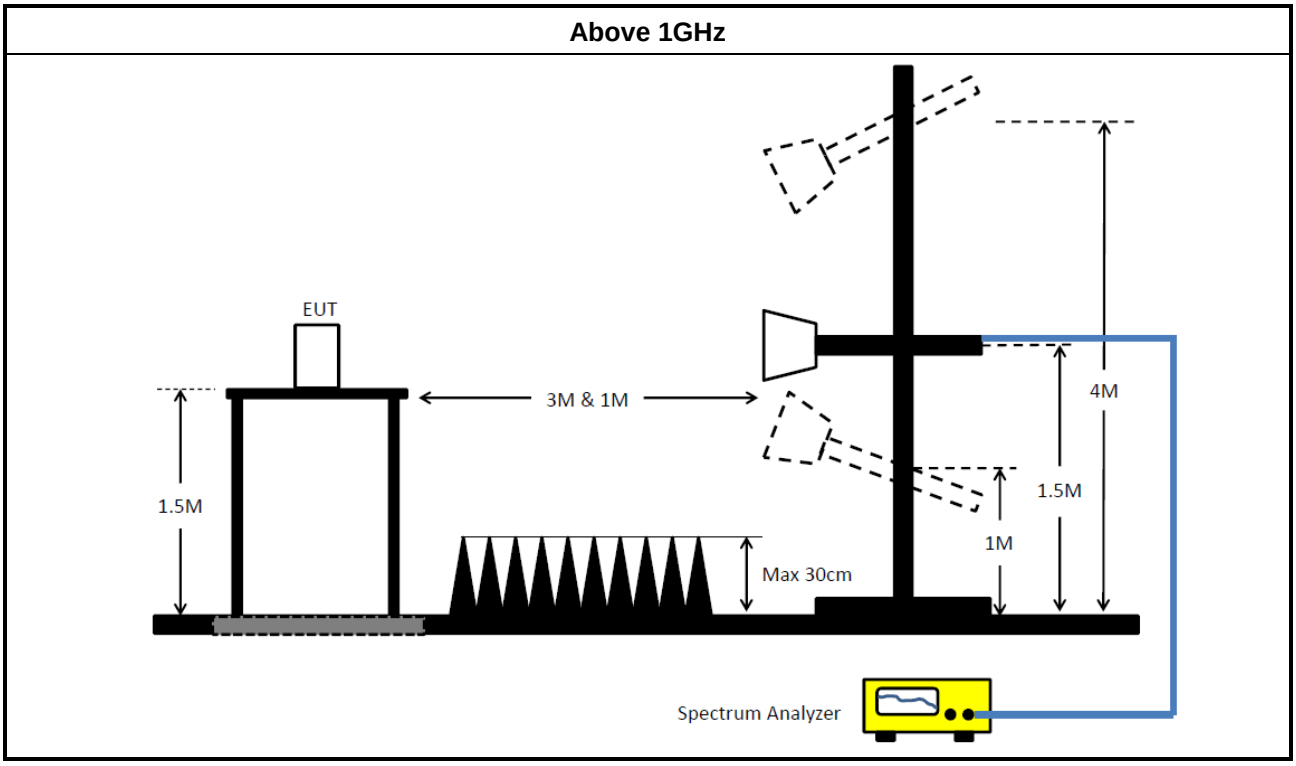
Emissions in Restricted Frequency Bands

9kHz ~30MHz



30MHz~1GHz





3.6.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	21/May/2025	20/May/2026
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	100003	9kHz ~ 30MHz	06/Sep/2024	05/Sep/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	17/Oct/2024	16/Oct/2025
SENSE-EMI	Sporton	V5.11.3	N/A	N/A	N/A	N/A

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	9kHz~40GHz	23/Jan/2025	22/Jan/2026
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	18/Dec/2024	17/Dec/2025
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	18/Dec/2024	17/Dec/2025
SENSE-15247_FS	Sporton	V5.11.23	N/A	N/A	N/A	N/A

Instrument for Radiated Test_Co-location

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	14/Jul/2024	13/Jul/2025
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	01/Nov/2024	31/Oct/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz~18GHz	18/Oct/2024	17/Oct/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	04/Jun/2024	03/Jun/2025
RF CABLE 5+8m	HUBER+SUHNER	SUOFLEX_104	03CH03-cable-03	1GHz~40GHz	11/Apr/2025	10/Apr/2026
Microwave Premplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	25/Jul/2024	24/Jul/2025
Amplifier	EM	EM18G40GA	060874	18GHz ~ 40GHz	18/Apr/2025	17/Apr/2026
SENSE-EMI	Sporton	V5.11.9	NA	NA	NA	NA

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
N.S.A. Measurement	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3M	14/Jul/2024	13/Jul/2025
N.S.A. Measurement	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3M	12/Jul/2025	11/Jul/2026
Site V.S.W.R	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3M	14/Jul/2024	13/Jul/2025
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	14/May/2025	13/May/2026
Signal Analyzer	R&S	FSP 40	100593	9kHz~40GHz	11/Mar/2024	10/Mar/2025
Signal Analyzer	R&S	FSP 40	100593	9kHz~40GHz	26/Mar/2025	25/Mar/2026
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	19/Mar/2024	18/Mar/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723/2	30MHz~1GHz	26/Aug/2024	25/Aug/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz~18GHz	23/Sep/2024	22/Sep/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	04/Jun/2024	03/Jun/2025
RF Cable	MVE	400LL+SN 200207	03CH02-cable-02	9kHz~30MHz	26/Nov/2024	25/Nov/2025
RF Cable	MVE	400LL+SN 200207	03CH02-cable-02	30MHz~1GHz	26/Nov/2024	25/Nov/2025
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX 104	03CH02-cable-01	1GHz~40GHz	13/Feb/2025	12/Feb/2026
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	27/Jun/2025	26/Jun/2026
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	01/Oct/2024	30/Sep/2025
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~40GHz	19/Apr/2024	18/Apr/2025
SENSE-15247-FS	Sporton	V5.11.18	N/A	N/A	N/A	N/A

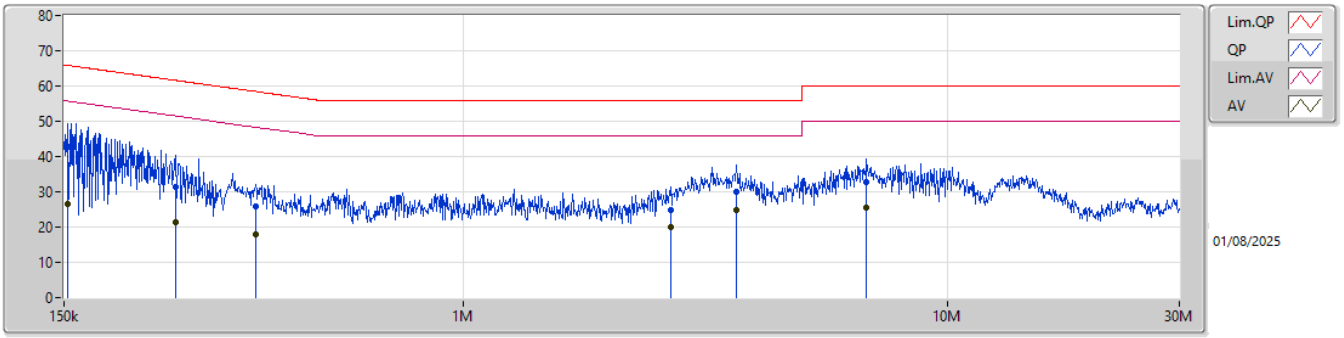
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	3.66M	24.68	46.00	-21.32	Line

Result

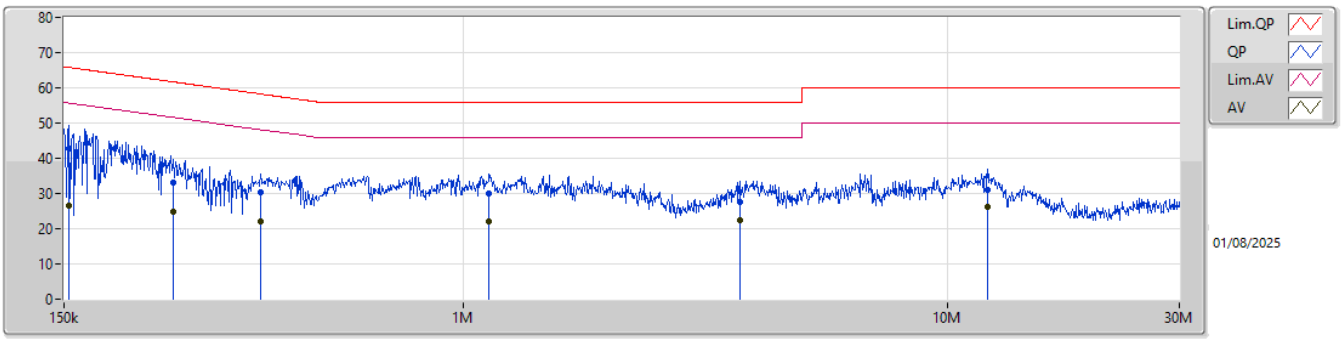
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	153.02k	42.81	65.83	-23.02	Line
Mode 1	Pass	AV	153.02k	26.67	55.83	-29.16	Line
Mode 1	Pass	QP	255.08k	31.30	61.58	-30.28	Line
Mode 1	Pass	AV	255.08k	21.25	51.58	-30.33	Line
Mode 1	Pass	QP	372.72k	25.88	58.45	-32.57	Line
Mode 1	Pass	AV	372.72k	18.09	48.45	-30.36	Line
Mode 1	Pass	QP	2.68M	24.83	56.00	-31.17	Line
Mode 1	Pass	AV	2.68M	20.08	46.00	-25.92	Line
Mode 1	Pass	QP	3.66M	30.16	56.00	-25.84	Line
Mode 1	Pass	AV	3.66M	24.68	46.00	-21.32	Line
Mode 1	Pass	QP	6.79M	32.60	60.00	-27.40	Line
Mode 1	Pass	AV	6.79M	25.57	50.00	-24.43	Line
Mode 1	Pass	QP	153.64k	42.69	65.81	-23.12	Neutral
Mode 1	Pass	AV	153.64k	26.46	55.81	-29.35	Neutral
Mode 1	Pass	QP	252.04k	33.13	61.70	-28.57	Neutral
Mode 1	Pass	AV	252.04k	24.87	51.70	-26.83	Neutral
Mode 1	Pass	QP	381.75k	30.47	58.24	-27.77	Neutral
Mode 1	Pass	AV	381.75k	22.18	48.24	-26.06	Neutral
Mode 1	Pass	QP	1.13M	30.08	56.00	-25.92	Neutral
Mode 1	Pass	AV	1.13M	21.96	46.00	-24.04	Neutral
Mode 1	Pass	QP	3.72M	27.45	56.00	-28.55	Neutral
Mode 1	Pass	AV	3.72M	22.45	46.00	-23.55	Neutral
Mode 1	Pass	QP	12.06M	31.18	60.00	-28.82	Neutral
Mode 1	Pass	AV	12.06M	26.32	50.00	-23.68	Neutral

Conducted Emissions at Powerline_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	153.02k	42.81	65.83	-23.02	19.61	Line	-	23.20	9.63	0.01	9.97
AV	153.02k	26.67	55.83	-29.16	19.61	Line	-	7.06	9.63	0.01	9.97
QP	255.08k	31.30	61.58	-30.28	19.62	Line	-	11.68	9.63	0.02	9.97
AV	255.08k	21.25	51.58	-30.33	19.62	Line	-	1.63	9.63	0.02	9.97
QP	372.72k	25.88	58.45	-32.57	19.64	Line	-	6.24	9.63	0.03	9.98
AV	372.72k	18.09	48.45	-30.36	19.64	Line	-	-1.55	9.63	0.03	9.98
QP	2.68M	24.83	56.00	-31.17	19.67	Line	-	5.16	9.66	0.04	9.97
AV	2.68M	20.08	46.00	-25.92	19.67	Line	-	0.41	9.66	0.04	9.97
QP	3.66M	30.16	56.00	-25.84	19.70	Line	-	10.46	9.67	0.05	9.98
AV	3.66M	24.68	46.00	-21.32	19.70	Line	-	4.98	9.67	0.05	9.98
QP	6.79M	32.60	60.00	-27.40	19.87	Line	-	12.73	9.73	0.16	9.98
AV	6.79M	25.57	50.00	-24.43	19.87	Line	-	5.70	9.73	0.16	9.98

Conducted Emissions at Powerline_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	153.64k	42.69	65.81	-23.12	19.71	Neutral	-	22.98	9.73	0.01	9.97
AV	153.64k	26.46	55.81	-29.35	19.71	Neutral	-	6.75	9.73	0.01	9.97
QP	252.04k	33.13	61.70	-28.57	19.71	Neutral	-	13.42	9.72	0.02	9.97
AV	252.04k	24.87	51.70	-26.83	19.71	Neutral	-	5.16	9.72	0.02	9.97
QP	381.75k	30.47	58.24	-27.77	19.72	Neutral	-	10.75	9.71	0.03	9.98
AV	381.75k	22.18	48.24	-26.06	19.72	Neutral	-	2.46	9.71	0.03	9.98
QP	1.13M	30.08	56.00	-25.92	19.75	Neutral	-	10.33	9.72	0.05	9.98
AV	1.13M	21.96	46.00	-24.04	19.75	Neutral	-	2.21	9.72	0.05	9.98
QP	3.72M	27.45	56.00	-28.55	19.81	Neutral	-	7.64	9.78	0.05	9.98
AV	3.72M	22.45	46.00	-23.55	19.81	Neutral	-	2.64	9.78	0.05	9.98
QP	12.06M	31.18	60.00	-28.82	20.23	Neutral	-	10.95	9.99	0.26	9.98
AV	12.06M	26.32	50.00	-23.68	20.23	Neutral	-	6.09	9.99	0.26	9.98

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	731.25k	1.034M	1M03F1D	617.5k	1.023M
BT-LE(2Mbps)	1.045M	2.074M	2M07F1D	867.5k	2.054M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

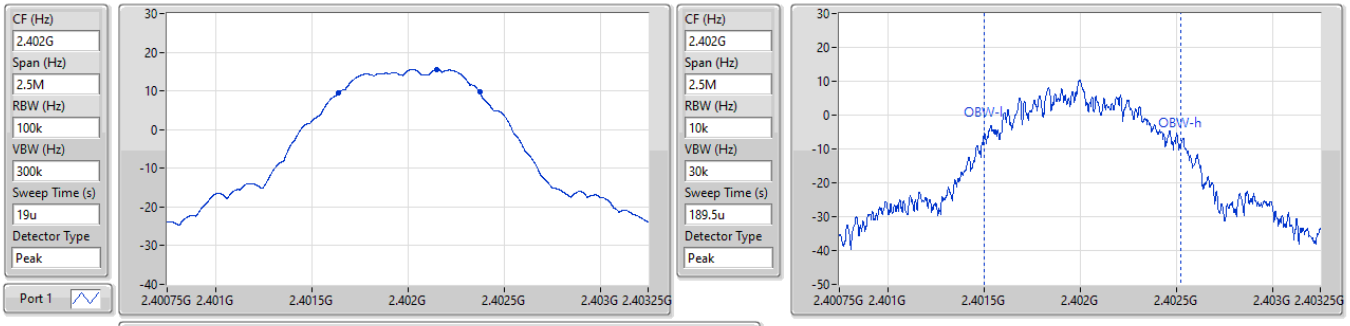
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	731.25k	1.023M
2440MHz	Pass	500k	622.5k	1.034M
2480MHz	Pass	500k	617.5k	1.026M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.045M	2.074M
2440MHz	Pass	500k	902.5k	2.054M
2480MHz	Pass	500k	867.5k	2.064M

Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-LE(1Mbps) **EBW-DTS**

2402MHz

08/03/2025

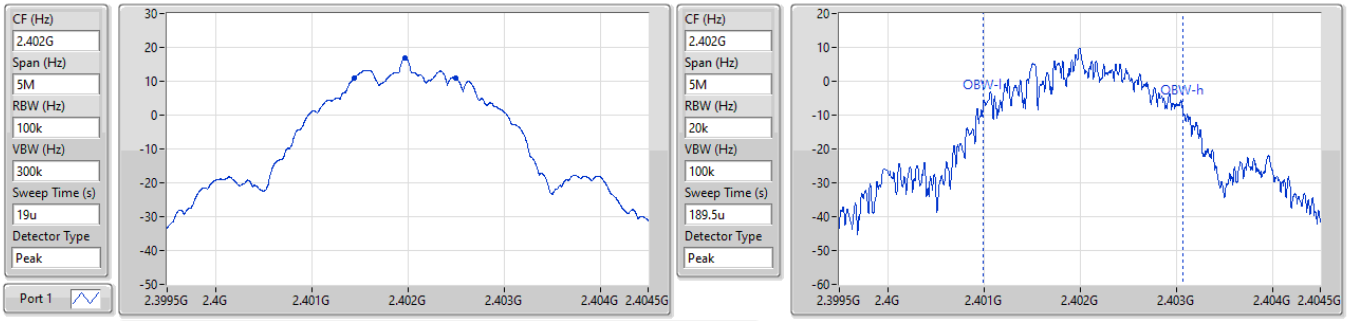


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
731.25k	2.401643G	2.402374G	1.023M	2.401503G	2.402526G	500k	1

2.4-2.4835GHz_BT-LE(2Mbps) **EBW-DTS**

2402MHz

08/03/2025



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.045M	2.40145G	2.402495G	2.074M	2.400996G	2.403069G	500k	1

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	18.57	0.07194
BT-LE(2Mbps)	18.27	0.06714

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.50	17.63	30.00
2440MHz	Pass	2.50	18.57	30.00
2480MHz	Pass	2.50	17.24	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	2.50	17.41	30.00
2440MHz	Pass	2.50	18.27	30.00
2480MHz	Pass	2.50	9.61	30.00

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	4.02
BT-LE(2Mbps)	3.75

RBW = 3kHz;

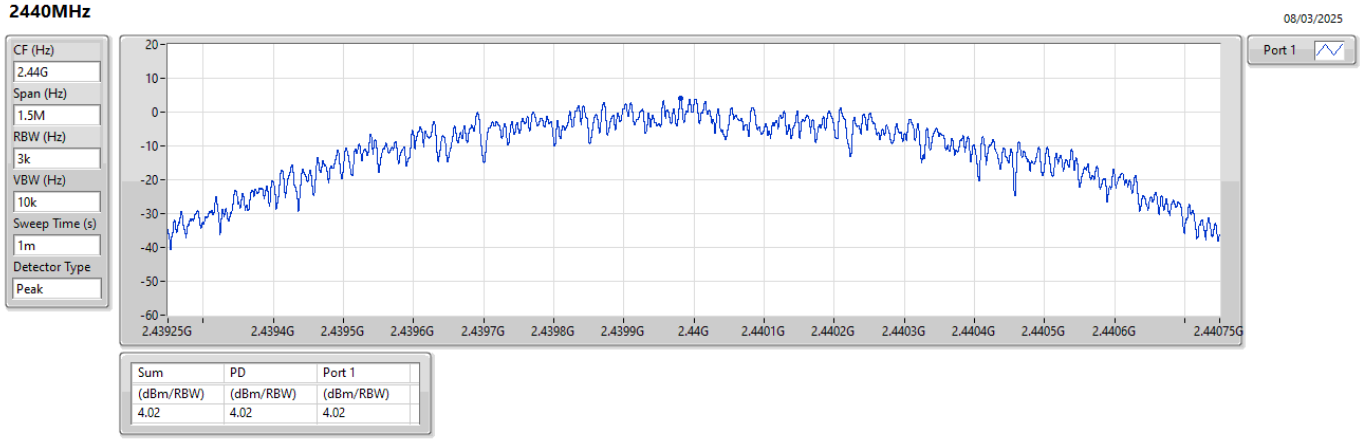
Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.50	3.08	8.00
2440MHz	Pass	2.50	4.02	8.00
2480MHz	Pass	2.50	2.59	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	2.50	2.81	8.00
2440MHz	Pass	2.50	3.75	8.00
2480MHz	Pass	2.50	-4.94	8.00

DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_BT-LE(1Mbps) **PSD**

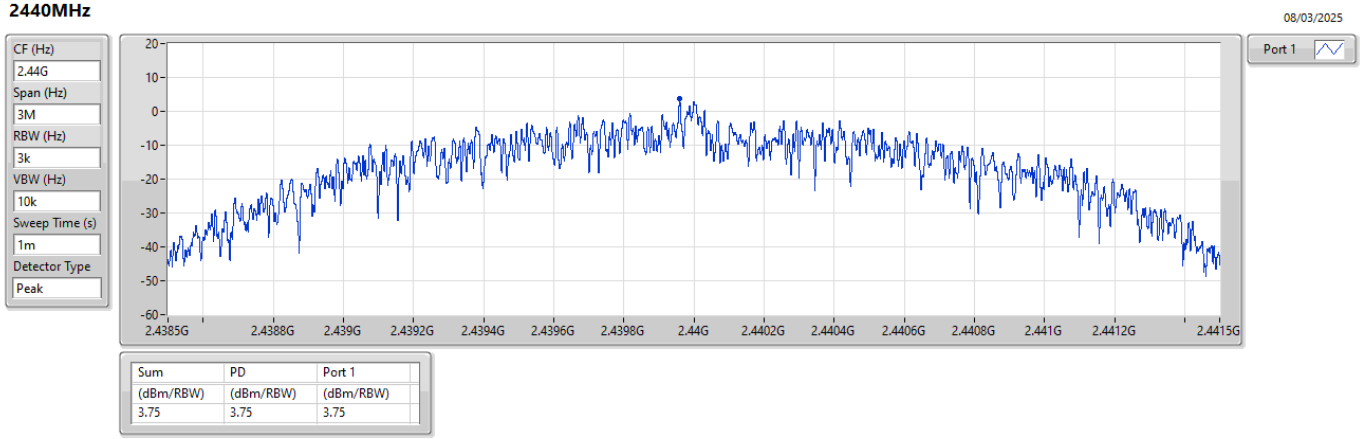
2440MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.02	4.02	4.02

2.4-2.4835GHz_BT-LE(2Mbps) **PSD**

2440MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.75	3.75	3.75

Summary

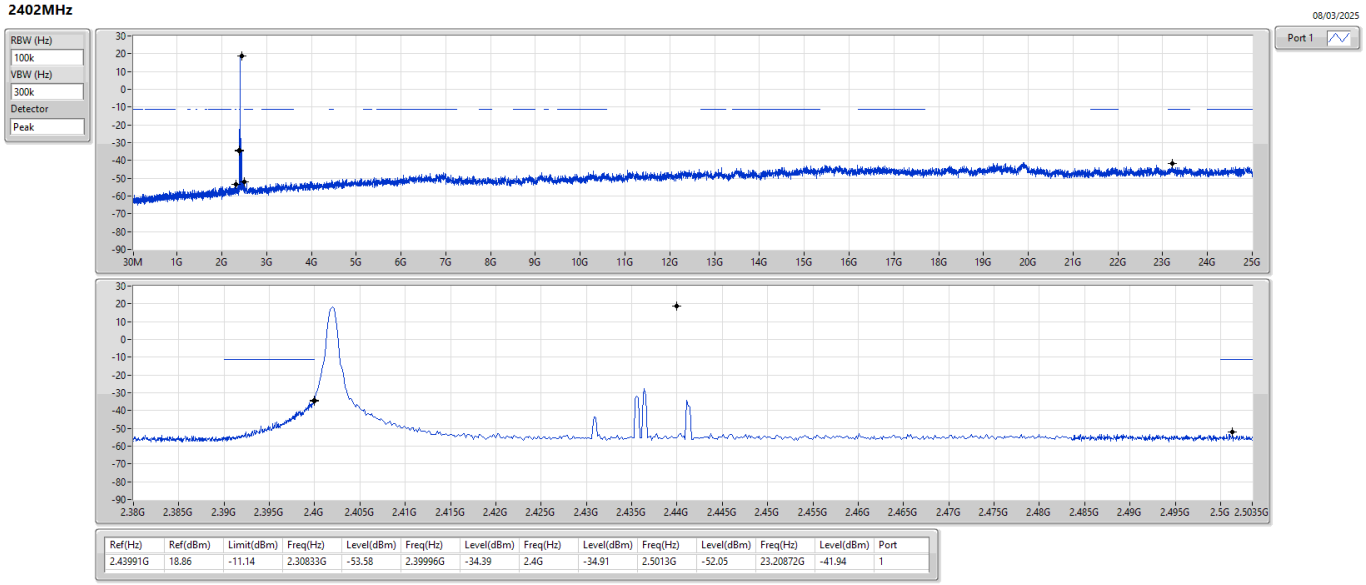
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.43991G	18.86	-11.14	2.30833G	-53.58	2.39996G	-34.39	2.4G	-34.91	2.5013G	-52.05	23.20872G	-41.94	1
BT-LE(2Mbps)	Pass	2.44008G	18.94	-11.06	2.12503G	-54.59	2.4G	-14.38	2.4G	-15.21	2.50098G	-53.27	16.23761G	-42.61	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.43991G	18.86	-11.14	2.30833G	-53.58	2.39996G	-34.39	2.4G	-34.91	2.5013G	-52.05	23.20872G	-41.94	1
2440MHz	Pass	2.43991G	18.86	-11.14	2.08625G	-55.18	2.39104G	-53.96	2.4G	-55.16	2.50058G	-53.44	16.90126G	-42.71	1
2480MHz	Pass	2.43991G	18.86	-11.14	2.03103G	-55.34	2.39476G	-52.67	2.4G	-56.68	2.50134G	-53.43	24.6035G	-41.84	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.44008G	18.94	-11.06	2.12503G	-54.59	2.4G	-14.38	2.4G	-15.21	2.50098G	-53.27	16.23761G	-42.61	1
2440MHz	Pass	2.44008G	18.94	-11.06	2.11445G	-54.47	2.39596G	-53.44	2.4G	-54.55	2.50102G	-53.40	16.57787G	-42.18	1
2480MHz	Pass	2.44008G	18.94	-11.06	2.10388G	-54.74	2.3972G	-53.92	2.4G	-55.66	2.50218G	-53.45	16.97156G	-42.36	1

2.4-2.4835GHz_BT-LE(1Mbps) CSENdB-DTS

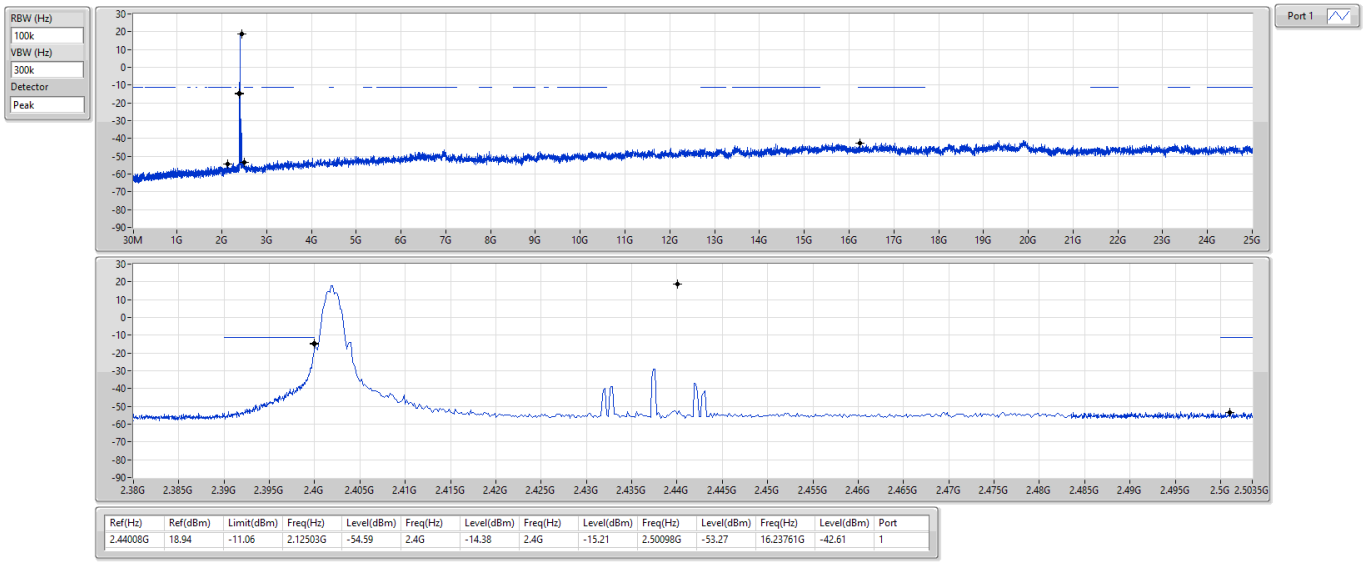
2402MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43991G	18.86	-11.14	2.30833G	-53.58	2.39996G	-34.39	2.4G	-34.91	2.5013G	-52.05	23.20872G	-41.94	1

2.4-2.4835GHz_BT-LE(2Mbps) CSENdB-DTS

2402MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44008G	18.94	-11.06	2.12503G	-54.59	2.4G	-14.38	2.4G	-15.21	2.50098G	-53.27	16.23761G	-42.61	1

Summary

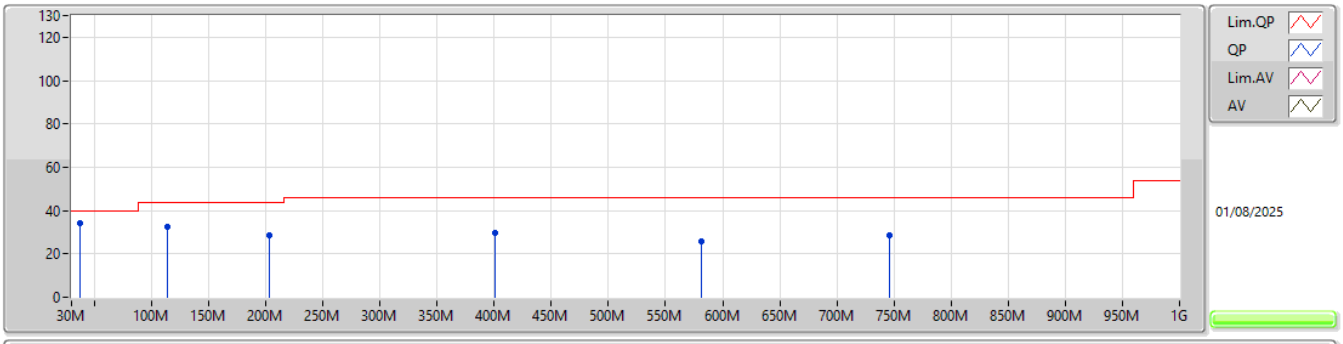
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	35.82M	34.39	40.00	-5.61	3	Horizontal	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz_Adapter	Pass	PK	37.76M	34.38	40.00	-5.62	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	113.42M	32.68	43.50	-10.82	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	202.66M	28.52	43.50	-14.98	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	400.54M	29.73	46.00	-16.27	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	580.96M	25.69	46.00	-20.31	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	745.86M	28.73	46.00	-17.27	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	35.82M	34.39	40.00	-5.61	3	Horizontal	360	1.00
2440MHz_Adapter	Pass	PK	165.8M	37.58	43.50	-5.92	3	Horizontal	360	1.00
2440MHz_Adapter	Pass	PK	256.98M	24.95	46.00	-21.05	3	Horizontal	360	1.00
2440MHz_Adapter	Pass	PK	421.88M	23.38	46.00	-22.62	3	Horizontal	360	1.00
2440MHz_Adapter	Pass	PK	573.2M	26.06	46.00	-19.94	3	Horizontal	360	1.00
2440MHz_Adapter	Pass	PK	734.22M	27.46	46.00	-18.54	3	Horizontal	360	1.00

2.4-2.4835GHz_BT-LE(2Mbps)

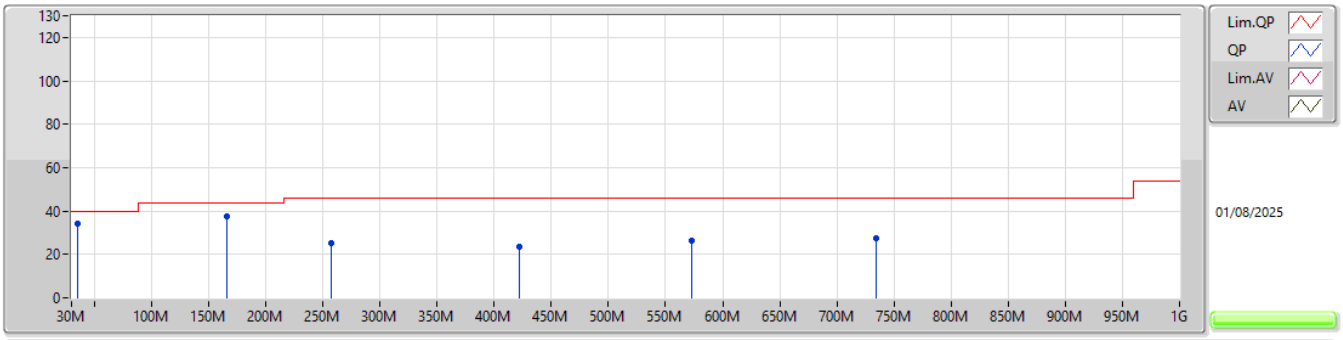
2440MHz_Adapter



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
PK	37.76M	34.38	40.00	-5.62	-6.02	3	Vertical	0	1.00	40.40	18.84	1.21	26.07
PK	113.42M	32.68	43.50	-10.82	-9.10	3	Vertical	0	1.00	41.78	16.60	2.13	27.83
PK	202.66M	28.52	43.50	-14.98	-10.59	3	Vertical	0	1.00	39.11	13.92	2.90	27.41
PK	400.54M	29.73	46.00	-16.27	-3.28	3	Vertical	0	1.00	33.01	20.46	4.13	27.87
PK	580.96M	25.69	46.00	-20.31	-0.12	3	Vertical	0	1.00	25.81	23.29	5.05	28.46
PK	745.86M	28.73	46.00	-17.27	1.84	3	Vertical	0	1.00	26.89	24.22	5.80	28.18

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_Adapter



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
PK	35.82M	34.39	40.00	-5.61	-5.09	3	Horizontal	360	1.00	39.48	19.79	1.18	26.06
PK	165.8M	37.58	43.50	-5.92	-10.53	3	Horizontal	360	1.00	48.11	14.51	2.59	27.63
PK	256.98M	24.95	46.00	-21.05	-5.91	3	Horizontal	360	1.00	30.86	18.00	3.27	27.18
PK	421.88M	23.38	46.00	-22.62	-2.45	3	Horizontal	360	1.00	25.83	21.31	4.24	28.00
PK	573.2M	26.06	46.00	-19.94	-0.23	3	Horizontal	360	1.00	26.29	23.22	5.00	28.45
PK	734.22M	27.46	46.00	-18.54	1.64	3	Horizontal	360	1.00	25.82	24.08	5.76	28.20

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	AV	2.4835G	53.48	54.00	-0.52	3	Horizontal	171	1.03
BT-LE(2Mbps)	Pass	AV	2.4835G	52.70	54.00	-1.30	3	Vertical	7	1.50

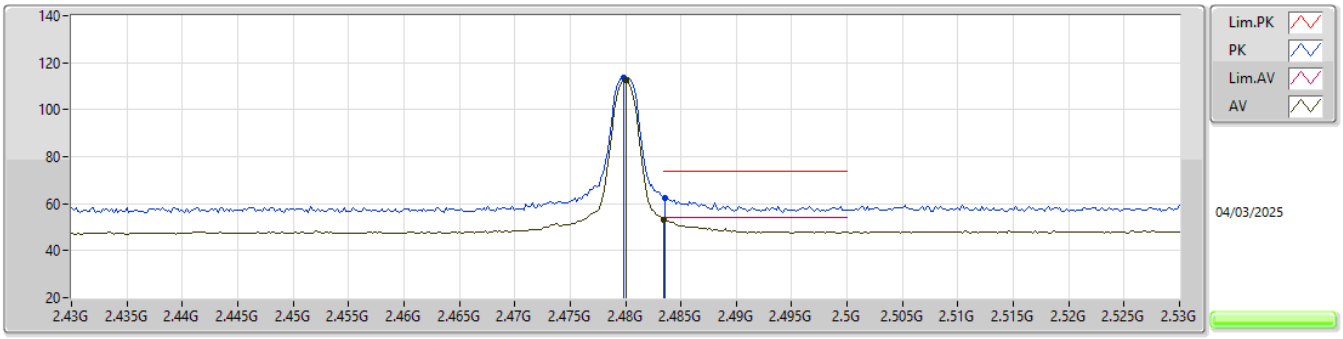
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3824G	47.20	54.00	-6.80	3	Vertical	14	1.83
2402MHz	Pass	AV	2.402G	110.75	Inf	-Inf	3	Vertical	14	1.83
2402MHz	Pass	PK	2.372G	58.38	74.00	-15.62	3	Vertical	14	1.83
2402MHz	Pass	PK	2.402G	111.58	Inf	-Inf	3	Vertical	14	1.83
2402MHz	Pass	AV	2.354G	47.38	54.00	-6.62	3	Horizontal	176	1.22
2402MHz	Pass	AV	2.402G	112.20	Inf	-Inf	3	Horizontal	176	1.22
2402MHz	Pass	PK	2.3664G	58.43	74.00	-15.57	3	Horizontal	176	1.22
2402MHz	Pass	PK	2.4018G	113.04	Inf	-Inf	3	Horizontal	176	1.22
2402MHz	Pass	AV	4.80464G	30.42	54.00	-23.58	3	Vertical	15	1.00
2402MHz	Pass	PK	4.80179G	41.63	74.00	-32.37	3	Vertical	15	1.00
2402MHz	Pass	AV	4.80588G	30.57	54.00	-23.43	3	Horizontal	100	1.50
2402MHz	Pass	PK	4.80428G	41.57	74.00	-32.43	3	Horizontal	100	1.50
2440MHz	Pass	AV	2.39G	47.31	54.00	-6.69	3	Vertical	344	1.49
2440MHz	Pass	AV	2.44G	114.03	Inf	-Inf	3	Vertical	344	1.49
2440MHz	Pass	AV	2.4968G	48.47	54.00	-5.53	3	Vertical	344	1.49
2440MHz	Pass	PK	2.3424G	58.03	74.00	-15.97	3	Vertical	344	1.49
2440MHz	Pass	PK	2.4396G	114.83	Inf	-Inf	3	Vertical	344	1.49
2440MHz	Pass	PK	2.486G	59.07	74.00	-14.93	3	Vertical	344	1.49
2440MHz	Pass	AV	2.382G	47.30	54.00	-6.70	3	Horizontal	173	1.26
2440MHz	Pass	AV	2.44G	115.00	Inf	-Inf	3	Horizontal	173	1.26
2440MHz	Pass	AV	2.4996G	48.18	54.00	-5.82	3	Horizontal	173	1.26
2440MHz	Pass	PK	2.3692G	58.15	74.00	-15.85	3	Horizontal	173	1.26
2440MHz	Pass	PK	2.44G	115.84	Inf	-Inf	3	Horizontal	173	1.26
2440MHz	Pass	PK	2.4864G	58.95	74.00	-15.05	3	Horizontal	173	1.26
2440MHz	Pass	AV	4.8798G	31.66	54.00	-22.34	3	Vertical	180	2.62
2440MHz	Pass	PK	4.88416G	42.61	74.00	-31.39	3	Vertical	180	2.62
2440MHz	Pass	AV	4.88056G	31.66	54.00	-22.34	3	Horizontal	179	1.50
2440MHz	Pass	PK	4.8799G	41.81	74.00	-32.19	3	Horizontal	179	1.50
2480MHz	Pass	AV	2.48G	112.57	Inf	-Inf	3	Vertical	12	1.76
2480MHz	Pass	AV	2.4835G	53.20	54.00	-0.80	3	Vertical	12	1.76
2480MHz	Pass	PK	2.4798G	113.43	Inf	-Inf	3	Vertical	12	1.76
2480MHz	Pass	PK	2.4836G	62.58	74.00	-11.42	3	Vertical	12	1.76
2480MHz	Pass	AV	2.48G	113.61	Inf	-Inf	3	Horizontal	171	1.03
2480MHz	Pass	AV	2.4835G	53.48	54.00	-0.52	3	Horizontal	171	1.03
2480MHz	Pass	PK	2.4798G	114.48	Inf	-Inf	3	Horizontal	171	1.03
2480MHz	Pass	PK	2.4836G	62.90	74.00	-11.10	3	Horizontal	171	1.03
2480MHz	Pass	AV	4.96042G	32.62	54.00	-21.38	3	Vertical	213	1.49
2480MHz	Pass	PK	4.9605G	43.18	74.00	-30.82	3	Vertical	213	1.49
2480MHz	Pass	AV	4.95954G	33.24	54.00	-20.76	3	Horizontal	229	1.48
2480MHz	Pass	PK	4.95966G	43.06	74.00	-30.94	3	Horizontal	229	1.48
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.374G	48.07	54.00	-5.93	3	Vertical	10	1.84
2402MHz	Pass	AV	2.402G	109.64	Inf	-Inf	3	Vertical	10	1.84
2402MHz	Pass	PK	2.3668G	58.75	74.00	-15.25	3	Vertical	10	1.84
2402MHz	Pass	PK	2.4024G	111.62	Inf	-Inf	3	Vertical	10	1.84
2402MHz	Pass	AV	2.365G	48.08	54.00	-5.92	3	Horizontal	176	1.22
2402MHz	Pass	AV	2.402G	111.01	Inf	-Inf	3	Horizontal	176	1.22
2402MHz	Pass	PK	2.39G	58.52	74.00	-15.48	3	Horizontal	176	1.22
2402MHz	Pass	PK	2.402G	112.99	Inf	-Inf	3	Horizontal	176	1.22
2402MHz	Pass	AV	4.80016G	31.12	54.00	-22.88	3	Vertical	238	1.39
2402MHz	Pass	PK	4.8065G	41.63	74.00	-32.37	3	Vertical	238	1.39
2402MHz	Pass	AV	4.80136G	31.00	54.00	-23.00	3	Horizontal	20	1.50
2402MHz	Pass	PK	4.80464G	41.43	74.00	-32.57	3	Horizontal	20	1.50
2440MHz	Pass	AV	2.3552G	48.03	54.00	-5.97	3	Vertical	344	1.50
2440MHz	Pass	AV	2.44G	113.05	Inf	-Inf	3	Vertical	344	1.50
2440MHz	Pass	AV	2.4876G	48.71	54.00	-5.29	3	Vertical	344	1.50
2440MHz	Pass	PK	2.3852G	58.04	74.00	-15.96	3	Vertical	344	1.50
2440MHz	Pass	PK	2.44G	115.03	Inf	-Inf	3	Vertical	344	1.50
2440MHz	Pass	PK	2.4984G	58.97	74.00	-15.03	3	Vertical	344	1.50
2440MHz	Pass	AV	2.3576G	47.74	54.00	-6.26	3	Horizontal	172	1.26

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2440MHz	Pass	AV	2.44G	113.97	Inf	-Inf	3	Horizontal	172	1.26
2440MHz	Pass	AV	2.4916G	48.69	54.00	-5.31	3	Horizontal	172	1.26
2440MHz	Pass	PK	2.3816G	57.92	74.00	-16.08	3	Horizontal	172	1.26
2440MHz	Pass	PK	2.44G	115.94	Inf	-Inf	3	Horizontal	172	1.26
2440MHz	Pass	PK	2.4952G	58.90	74.00	-15.10	3	Horizontal	172	1.26
2440MHz	Pass	AV	4.87572G	31.26	54.00	-22.74	3	Vertical	64	1.98
2440MHz	Pass	PK	4.87636G	41.86	74.00	-32.14	3	Vertical	64	1.98
2440MHz	Pass	AV	4.8806G	31.45	54.00	-22.55	3	Horizontal	171	1.50
2440MHz	Pass	PK	4.87724G	42.16	74.00	-31.84	3	Horizontal	171	1.50
2480MHz	Pass	AV	2.48G	105.08	Inf	-Inf	3	Vertical	7	1.50
2480MHz	Pass	AV	2.4835G	52.70	54.00	-1.30	3	Vertical	7	1.50
2480MHz	Pass	PK	2.4796G	107.21	Inf	-Inf	3	Vertical	7	1.50
2480MHz	Pass	PK	2.4835G	63.18	74.00	-10.82	3	Vertical	7	1.50
2480MHz	Pass	AV	2.48G	106.27	Inf	-Inf	3	Horizontal	173	1.03
2480MHz	Pass	AV	2.4835G	52.58	54.00	-1.42	3	Horizontal	173	1.03
2480MHz	Pass	PK	2.4794G	108.39	Inf	-Inf	3	Horizontal	173	1.03
2480MHz	Pass	PK	2.4835G	62.74	74.00	-11.26	3	Horizontal	173	1.03
2480MHz	Pass	AV	4.96346G	31.52	54.00	-22.48	3	Vertical	354	1.50
2480MHz	Pass	PK	4.95516G	42.34	74.00	-31.66	3	Vertical	354	1.50
2480MHz	Pass	AV	4.96386G	31.66	54.00	-22.34	3	Horizontal	21	1.50
2480MHz	Pass	PK	4.95848G	42.34	74.00	-31.66	3	Horizontal	21	1.50

2.4-2.4835GHz_BT-LE(1Mbps)

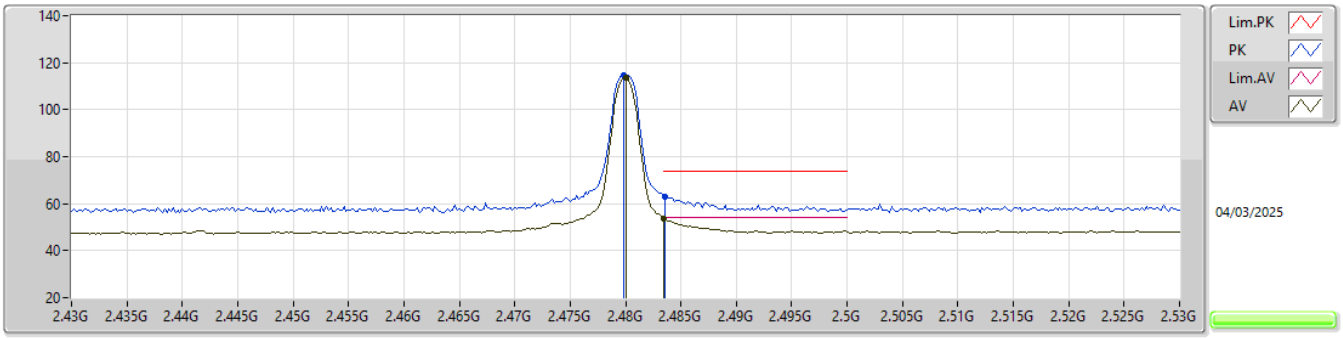
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	112.57	Inf	-Inf	32.79	3	Vertical	12	1.76	79.78	27.80	4.99	-
AV	2.4835G	53.20	54.00	-0.80	32.84	3	Vertical	12	1.76	20.36	27.84	5.00	-
PK	2.4798G	113.43	Inf	-Inf	32.79	3	Vertical	12	1.76	80.64	27.80	4.99	-
PK	2.4836G	62.58	74.00	-11.42	32.84	3	Vertical	12	1.76	29.74	27.84	5.00	-

2.4-2.4835GHz_BT-LE(1Mbps)

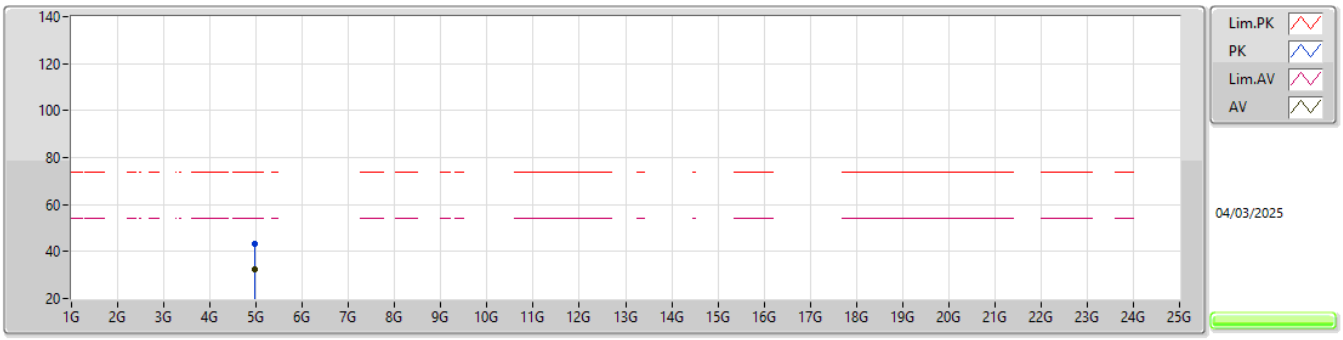
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	113.61	Inf	-Inf	32.79	3	Horizontal	171	1.03	80.82	27.80	4.99	-
AV	2.4835G	53.48	54.00	-0.52	32.84	3	Horizontal	171	1.03	20.64	27.84	5.00	-
PK	2.4798G	114.48	Inf	-Inf	32.79	3	Horizontal	171	1.03	81.69	27.80	4.99	-
PK	2.4836G	62.90	74.00	-11.10	32.84	3	Horizontal	171	1.03	30.06	27.84	5.00	-

2.4-2.4835GHz_BT-LE(1Mbps)

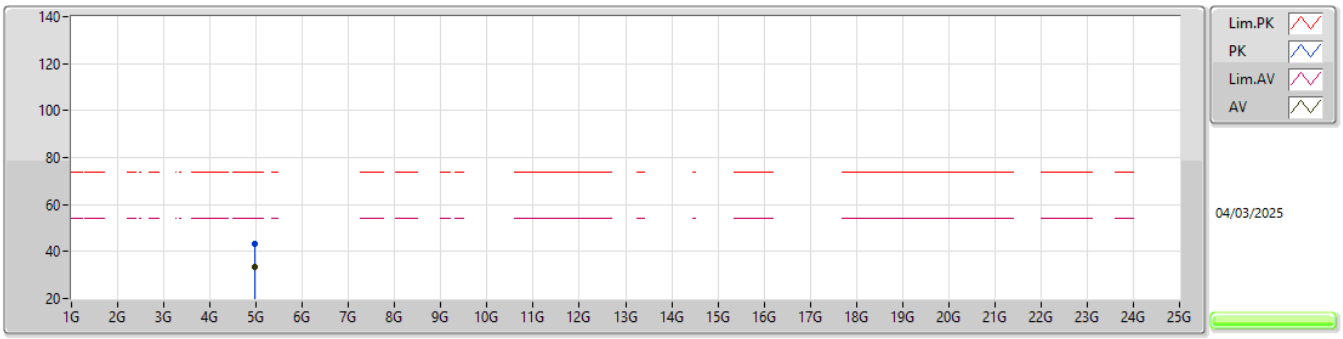
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	4.96042G	32.62	54.00	-21.38	5.18	3	Vertical	213	1.49	27.44	33.04	7.21	35.07
PK	4.9605G	43.18	74.00	-30.82	5.18	3	Vertical	213	1.49	38.00	33.04	7.21	35.07

2.4-2.4835GHz_BT-LE(1Mbps)

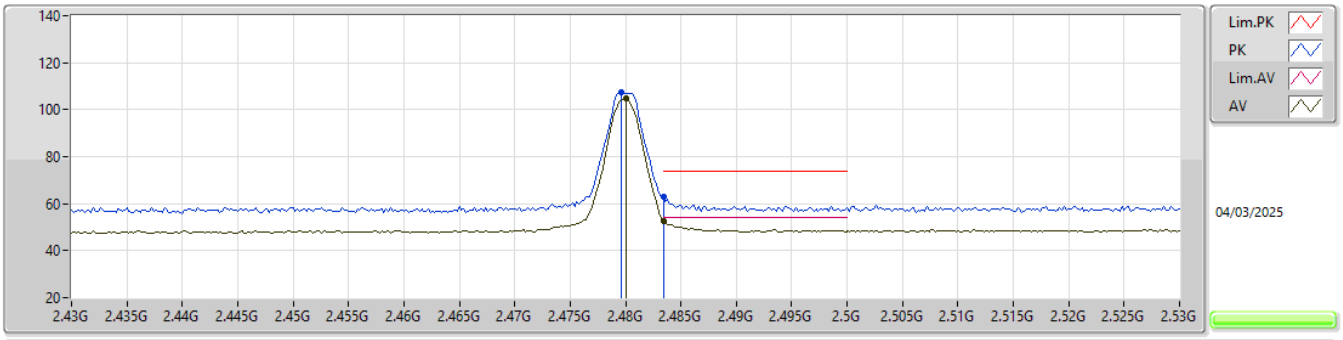
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	4.95954G	33.24	54.00	-20.76	5.18	3	Horizontal	229	1.48	28.06	33.04	7.21	35.07
PK	4.95966G	43.06	74.00	-30.94	5.18	3	Horizontal	229	1.48	37.88	33.04	7.21	35.07

2.4-2.4835GHz_BT-LE(2Mbps)

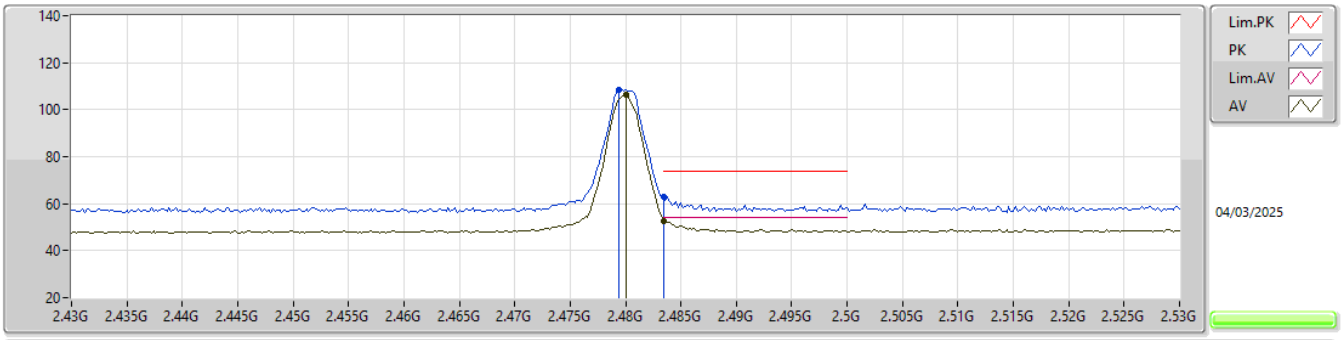
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	105.08	Inf	-Inf	32.79	3	Vertical	7	1.50	72.29	27.80	4.99	-
AV	2.4835G	52.70	54.00	-1.30	32.84	3	Vertical	7	1.50	19.86	27.84	5.00	-
PK	2.4796G	107.21	Inf	-Inf	32.79	3	Vertical	7	1.50	74.42	27.80	4.99	-
PK	2.4835G	63.18	74.00	-10.82	32.84	3	Vertical	7	1.50	30.34	27.84	5.00	-

2.4-2.4835GHz_BT-LE(2Mbps)

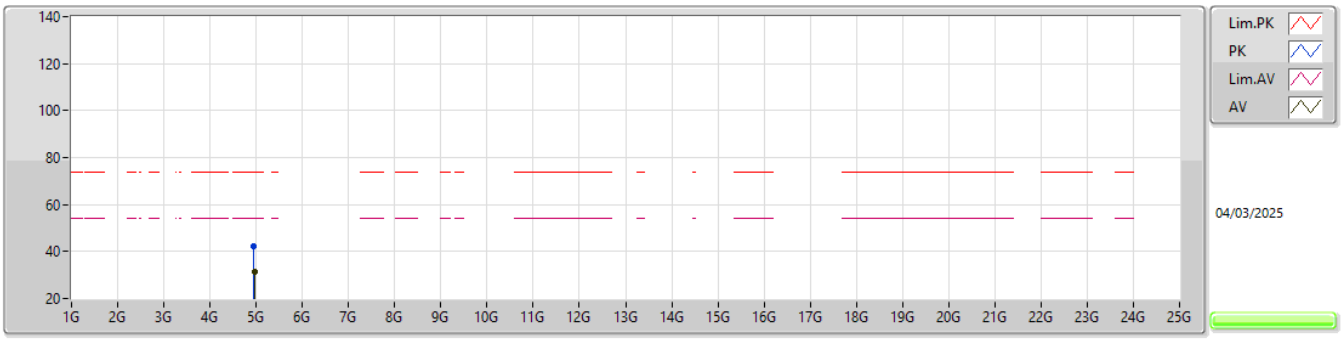
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	106.27	Inf	-Inf	32.79	3	Horizontal	173	1.03	73.48	27.80	4.99	-
AV	2.4835G	52.58	54.00	-1.42	32.84	3	Horizontal	173	1.03	19.74	27.84	5.00	-
PK	2.4794G	108.39	Inf	-Inf	32.78	3	Horizontal	173	1.03	75.61	27.79	4.99	-
PK	2.4835G	62.74	74.00	-11.26	32.84	3	Horizontal	173	1.03	29.90	27.84	5.00	-

2.4-2.4835GHz_BT-LE(2Mbps)

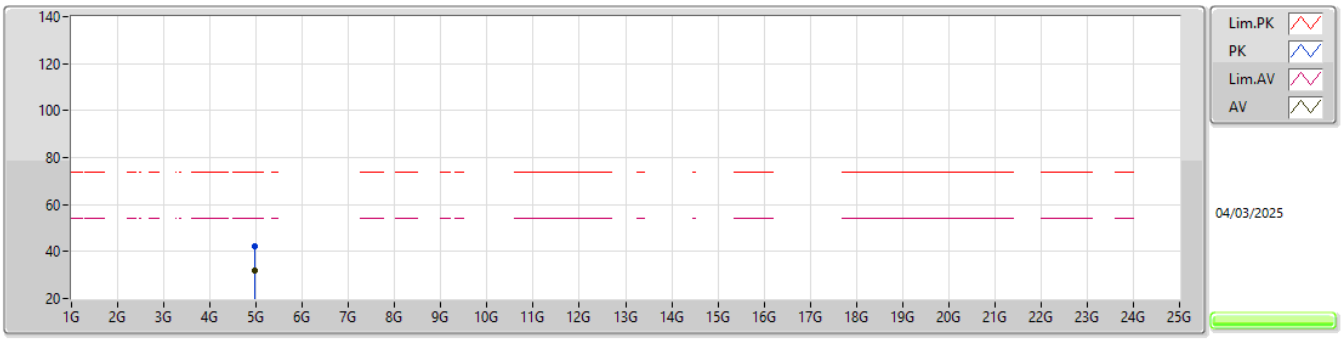
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	4.96346G	31.52	54.00	-22.48	5.19	3	Vertical	354	1.50	26.33	33.05	7.21	35.07
PK	4.95516G	42.34	74.00	-31.66	5.15	3	Vertical	354	1.50	37.19	33.02	7.20	35.07

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	4.96386G	31.66	54.00	-22.34	5.20	3	Horizontal	21	1.50	26.46	33.06	7.21	35.07
PK	4.95848G	42.34	74.00	-31.66	5.16	3	Horizontal	21	1.50	37.18	33.03	7.20	35.07

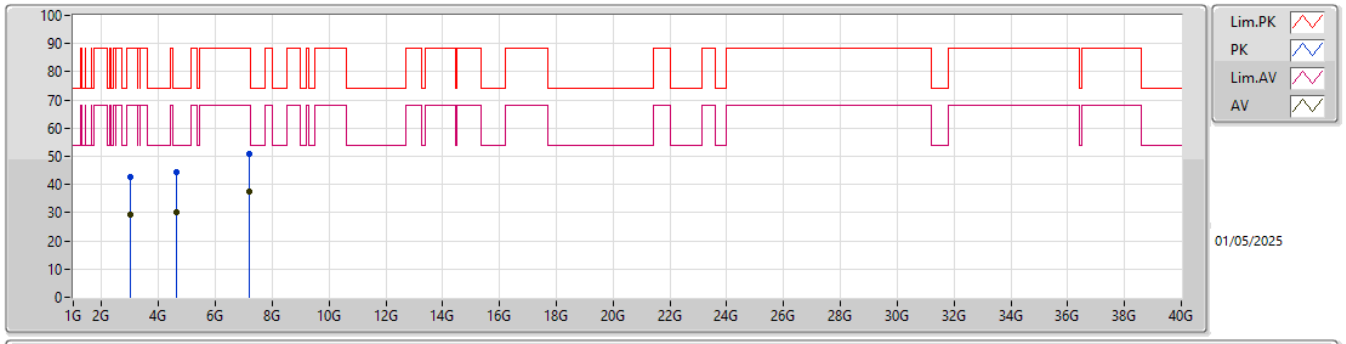
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	7.21282G	37.65	62.20	-24.55	Horizontal

Result

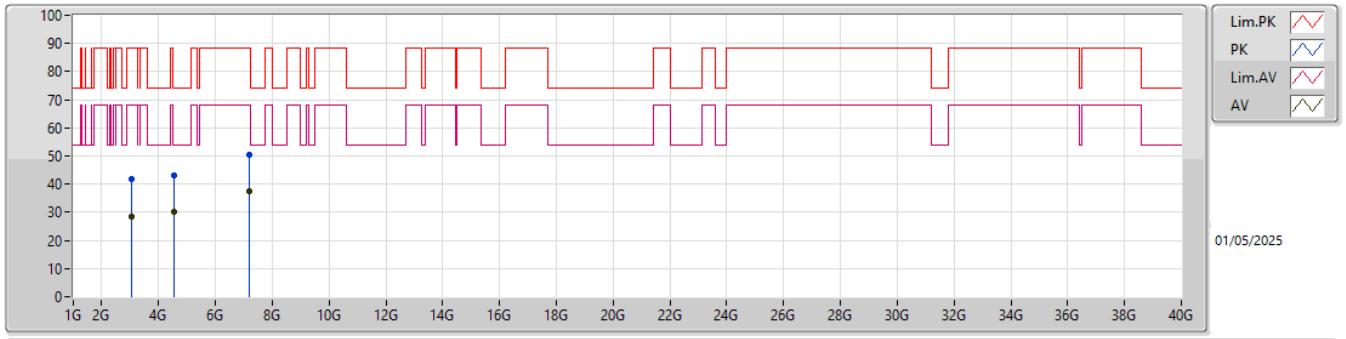
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	2.99974G	29.45	62.20	-32.75	3	Vertical	227	2.77
Mode 1	Pass	AV	4.61402G	30.17	62.20	-32.03	3	Vertical	94	1.61
Mode 1	Pass	AV	7.20976G	37.56	62.20	-24.64	3	Vertical	28	1.85
Mode 1	Pass	PK	2.99938G	42.58	82.20	-39.62	3	Vertical	227	2.77
Mode 1	Pass	PK	4.62488G	44.32	82.20	-37.88	3	Vertical	94	1.61
Mode 1	Pass	PK	7.20318G	51.07	82.20	-31.13	3	Vertical	28	1.85
Mode 1	Pass	AV	3.04065G	28.57	62.20	-33.63	3	Horizontal	70	2.23
Mode 1	Pass	AV	4.55365G	30.38	62.20	-31.82	3	Horizontal	341	1.21
Mode 1	Pass	AV	7.21282G	37.65	62.20	-24.55	3	Horizontal	356	1.10
Mode 1	Pass	PK	3.03937G	41.64	82.20	-40.56	3	Horizontal	70	2.23
Mode 1	Pass	PK	4.55836G	43.22	82.20	-38.98	3	Horizontal	341	1.21
Mode 1	Pass	PK	7.2071G	50.26	82.20	-31.94	3	Horizontal	356	1.10

Radiated Emissions above 1GHz_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.99974G	29.45	68.20	-38.75	2.83	3	Vertical	227	2.77	26.62	29.60	6.55	33.32
AV	4.61402G	30.17	54.00	-23.83	6.44	3	Vertical	94	1.61	23.73	31.73	8.66	33.95
AV	7.20976G	37.56	68.20	-30.64	12.81	3	Vertical	28	1.85	24.75	36.92	10.24	34.35
PK	2.99938G	42.58	88.20	-45.62	2.82	3	Vertical	227	2.77	39.76	29.59	6.55	33.32
PK	4.62488G	44.32	74.00	-29.68	6.47	3	Vertical	94	1.61	37.85	31.75	8.67	33.95
PK	7.20318G	51.07	88.20	-37.13	12.79	3	Vertical	28	1.85	38.28	36.91	10.24	34.36

Radiated Emissions above 1GHz_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	3.04065G	28.57	68.20	-39.63	2.88	3	Horizontal	70	2.23	25.69	29.68	6.59	33.39
AV	4.55365G	30.38	54.00	-23.62	6.27	3	Horizontal	341	1.21	24.11	31.61	8.60	33.94
AV	7.21282G	37.65	68.20	-30.55	12.82	3	Horizontal	356	1.10	24.83	36.93	10.24	34.35
PK	3.03937G	41.64	88.20	-46.56	2.88	3	Horizontal	70	2.23	38.76	29.68	6.59	33.39
PK	4.55836G	43.22	74.00	-30.78	6.28	3	Horizontal	341	1.21	36.94	31.62	8.60	33.94
PK	7.2071G	50.26	88.20	-37.94	12.79	3	Horizontal	356	1.10	37.47	36.91	10.24	34.36